

Goldhofer

DEFENSE



TOW TRACTORS FOR MAXIMUM REQUIREMENTS

AIRPORT TECHNOLOGY

MADE FOR YOUR MISSION



OUR EXPERTISE? OUR EXPERIENCE!

Goldhofer stands for highest standards, quality and reliability in ground support equipment. Especially for defense operations reliability, agility, consistency and endurance are key when it comes to a mission's success.

We have a longstanding experience and history in delivering first-class solutions to defense customers worldwide and offer best-in-class products in cargo and aircraft towing as well as aircraft recovery.

So far we have delivered 850 aircraft tow tractors to more than 30 Air Forces, Armies, and Navies around the globe.



FOR MORE INFORMATION PLEASE CONTACT:

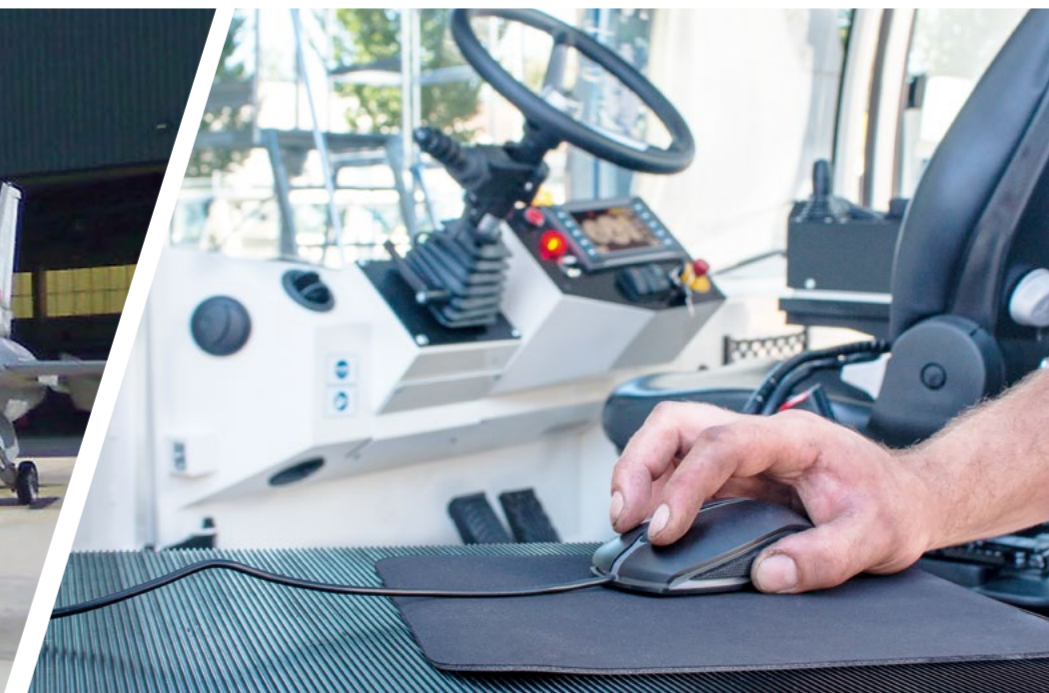
Telephone: +49 8331 15-343

E-Mail: sales-defense@goldhofer.com

www.goldhofer.com/en/defense

OUR SERVICES

- + Longstanding expertise
- + Strategic supply based on operating parameters such as environmental conditions, time period or location
- + Consideration of maintenance and repair conditions on site
- + Collaboration with longstanding experienced service partners in conflict areas
- + Customized solutions for your operation
- + Customized support for specific individual missions
- + Long-term full-service support
- + Provisioning of spare parts and training of action forces for autonomous service





MILITARY AIRCRAFT TRACTORS



✈ ≤ 600 t 460 kN^[2] | 298 kW »BISON« D 1500

- + Turning radius of 7.14 m
- + EU Stage V | US EPA TIER 4 F
- + From -30 °C to +52 °C^[1]
- + Three cabin designs: cabless, open cab, closed cab
- + 360° panoramic view from all cabins
- + Air transportable upon request
- + Jetfuel compatible upon request
- + Night vision lights upon request
- + NATO sockets on request



✈ ≤ 400 t 305 kN | 200 kW »BISON« D 1000

- + Turning radius of 6.19 m
- + EU Stage IIIA | US EPA TIER 3
- + EU Stage V | US EPA TIER 4 F
- + From -30 °C to +52 °C^[1]
- + Three cabin designs: cabless, open cab, closed cab
- + 360° panoramic view from all cabins
- + Air transportable upon request
- + Jetfuel compatible upon request
- + Night vision lights upon request
- + NATO sockets on request



✈ ≤ 125 t 105 kN | 74.4 kW »BISON« D 370

- + Turning radius of 4.55 m
- + EU Stage IIIA | US EPA TIER 3
- + EU Stage V | US EPA TIER 4 F
- + From -30 °C to +52 °C^[1]
- + Three cabin designs: cabless, open cab, closed cab
- + 360° panoramic view from all cabins
- + Air transportable upon request
- + Jetfuel compatible upon request
- + Night vision lights upon request
- + NATO sockets on request



✈ ≤ 125 t 105 kN | 74.4 kW »BISON« E 370

- + Turning radius of 4.55 m
- + From -30 °C to +52 °C^[1]
- + Standard plugs CCS Type 1, CCS Type 2 & GB/T
- + Electric power train, electric engine, battery, thermo module and inverter are maintenance-free
- + Rapid DC charging and intermediate charging at up to 70 kW
- + Three cabin designs: cabless, open cab, closed cab
- + 360° panoramic view from all cabins
- + Air transportable upon request
- + Night vision lights upon request



✈ ≤ 250 t 205 kN | 115 kW »BISON« D 620

- + Turning radius of 6.03 m
- + EU Stage IIIA | US EPA TIER 3
- + EU Stage V | US EPA TIER 4 F
- + From -30 °C to +52 °C^[1]
- + Three cabin designs: cabless, open cab, closed cab
- + 360° panoramic view from all cabins
- + Air transportable upon request
- + Jetfuel compatible upon request
- + Night vision lights upon request
- + NATO sockets on request



✈ ≤ 250 t 205 kN | 115 kW »BISON« E 620

- + Turning radius of 6.03 m
- + From -30 °C to +52 °C^[1]
- + Standard plugs CCS Type 1, CCS Type 2 & GB/T
- + Electric power train, electric engine, battery, thermo module and inverter are maintenance-free
- + Rapid DC charging and intermediate charging at up to 70 kW
- + Three cabin designs: cabless, open cab, closed cab
- + 360° panoramic view from all cabins
- + Air transportable upon request
- + Night vision lights upon request
- + NATO sockets on request



✈ ≤ 70 t 45 kN | 48 kW 57.5 kW | 87 kW | 55.4 kW F 59

- + Small turning radius of 4.05 m
- + EU Stage IIIA | US TIER 3
- + EU Stage V | US TIER 4 F
- + From -30 °C to +52 °C^[1]
- + Weight distribution 50:50 on both axles
- + 4-wheel drive
- + Designed and manufactured in compliance with: IATA-AHM, ISO, CE standards, CE health & safety and environmental directives
- + Best allround visibility and maneuverability
- + 360° view for operators
- + Jetfuel compatible
- + Air transportable
- + Night vision lights upon request
- + Additional features upon request



🏠 ≤ 62 t 68 kN | 68 kW STT

- + Small turning radius of 4.36 m
- + EU Stage IIIA | US TIER 3
- + From -30 °C to +52 °C^[1]
- + 2-wheel drive
- + Automatic full-power-shift transmission
- + 360° view for operators
- + Jetfuel compatible
- + Night vision lights upon request
- + Additional features upon request

^[1] Standard version from -20°C to +42°C, other temperature range with Arctic- and Tropical-Kit
^[2] Depending on tire variation



CARGO AND MULTI-PURPOSE TOW TRACTORS



55 kW 40 kN »SHERPA« D

75 kW 45 kN »SHERPA« D

- + Small turning radius of 3.95 m
- + EU Stage IIIA | US TIER 3
- + EU Stage V | US TIER 4F
- + From -30°C to +52°C ^[1]
- + COTS - Commercial of the shelf
- + Rear wheel drive
- + Three cabin designs: cabless, open cab, closed cab
- + 360° panoramic view from all cabins
- + Air transportable upon request
- + Jetfuel compatible upon request
- + Night vision lights upon request
- + Additional features upon request



40 kW 25 kN »SHERPA« E

70 kW 45 kN »SHERPA« E

- + Small turning radius of 4.12 m
- + Electric power train, electric engine, battery, thermo module and inverter are maintenance-free
- + Rapid DC charging and intermediate charging at up to 70 kW
- + Standard plugs CCS Type 1, CCS Type 2 & GB/T
- + From -30°C to +52°C ^[1]
- + COTS - Commercial of the shelf
- + Rear wheel drive
- + Three cabin designs: cabless, open cab, closed cab
- + 360° panoramic view from all cabins
- + Air transportable upon request
- + Night vision lights upon request
- + Additional features upon request

(ARTS) AIRCRAFT RECOVERY SYSTEM DOLLY 100t



MLG ^[2] WITH TWO OR MORE AXLES

- + 2x dolly 50t combined
- + Choice of wear plates for easier recovery
- + Power pack for aircraft pick-up and steering
- + Remote control for steering

^[1] Standard version from -20°C to +42°C, other temperature range with Arctic- and Tropical-Kit
^[2] MLG = Main Landing Gear

AIRCRAFT OVERVIEW

Selected Listing of Aircraft (MTOW)	Aircraft in tons	F59	»BISON« D/E 370	»BISON« D/E 620	»BISON« D 1000	STT (operating on carriers)	»SHERPA« D/E
Antonow 124	405.0t	✗	✗	✗	✓	✗	✗
C5 Galaxy	391.0t	✗	✗	✗	✓	✗	✗
C-17A (CC-177)	265.0t	✗	✗	✗	✓	✗	✗
A330 MRTT	233.0t	✗	✗	✓	✓	✗	✗
IL-76/IL-78	210.0t	✗	✗	✓	✓	✗	✗
Airbus A 340	164.0t	✗	✗	✓	✓	✗	✗
KC-767 (767-200ER)	187.0t	✗	✗	✓	✓	✗	✗
KC-135	146.0t	✗	✗	✓	✓	✗	✗
Airbus A 400 M	141.0t	✗	✗	✓	✓	✗	✗
P-8	86.0t	✗	✓	✓	✓	✗	✗
E-3	84.0t	✗	✓	✓	✓	✗	✗
Hercules C 130-H	79.0t	✓	✓	✓	✓	✗	✗
P-3C	64.0t	✓	✓	✓	✓	✗	✗
Hercules C 130-A	56.0t	✓	✓	✓	✓	✗	✗
An-178	52.0t	✓	✓	✓	✓	✗	✗
MIG-31	46.2t	✓	✓	✓	✓	✗	✗
SU-34	44.4t	✓	✓	✓	✓	✗	✗
SU-24	43.8t	✓	✓	✓	✓	✗	✗
MIG-29	40.0t	✓	✓	✓	✓	✗	✗
F-15	36.7t	✓	✓	✓	✓	✗	✗
Su-30	35.0t	✓	✓	✓	✓	✓	✗
F-35	31.7t	✓	✓	✓	✓	✓	✗
SU-27	30.5t	✓	✓	✓	✓	✓	✗
Panavia Tornado	28.5t	✓	✓	✓	✓	✓	✗
F-22	27.2t	✓	✓	✓	✓	✓	✗
V/CV/MV/CMV-22B	27.0t	✓	✓	✓	✓	✓	✗
Rafale	25.0t	✓	✓	✓	✓	✓	✗
F/A-18	24.0t	✓	✓	✓	✓	✓	✗
Typhoon	24.0t	✓	✓	✓	✓	✓	✗
F-16	22.7t	✓	✓	✓	✓	✓	✓
SU-25	21.5t	✓	✓	✓	✓	✓	✓
MIG-29	21.0t	✓	✓	✓	✓	✓	✓
Boeing CH-47 H	22.7t	✓	✓	✓	✓	✓	✓
F-16	19.0t	✓	✓	✓	✓	✓	✓
CN-235	16.0t	✓	✓	✓	✓	✓	✓
Mirage 2000	17.0t	✓	✓	✓	✓	✓	✓
NH Industries	11.4t	✓	✓	✓	✓	✓	✓
Sikorsky UH-60	11.1t	✓	✓	✓	✓	✓	✓
Aerospatiale SA 332	9.4t	✓	✓	✓	✓	✓	✓
Bristol 192	8.6t	✓	✓	✓	✓	✓	✓
Aerospatiale SA 330	7.4t	✓	✓	✓	✓	✓	✓
Sikorsky S-61	7.2t	✓	✓	✓	✓	✓	✓
Bell UH-1H	4.3t	✓	✓	✓	✓	✓	✓
Aerospatiale SA 565	4.2t	✓	✓	✓	✓	✓	✓
Kamow KA 226	3.6t	✓	✓	✓	✓	✓	✓
Bell OH 58	2.5t	✓	✓	✓	✓	✓	✓
Aerospatiale SA 342	2.1t	✓	✓	✓	✓	✓	✓

For all data above: 4% breakaway resistance, 1% apron slope, no engine resistance, wet concrete (friction coefficient 0.57)
 We will be happy to provide exact tensile hook force calculations upon request.

HELICOPTER OVERVIEW

Selected Listing of Helicopter (MTOW)	Aircraft in tons	F59	»BISON« D/E 370	»BISON« D/E 620	»BISON« D 1000	STT (operating on carriers)	»SHERPA« D/E
Sikorsky CH-53	19.0t	✓	✓	✓	✓	✓	✓
Boeing CH-47 A	14.9t	✓	✓	✓	✓	✓	✓
Mil Mi-17	13.0t	✓	✓	✓	✓	✓	✓
Mil Mi-24 (Mi-25/35)	12.0t	✓	✓	✓	✓	✓	✓
SH-60	10.0t	✓	✓	✓	✓	✓	✓
AH-64	10.0t	✓	✓	✓	✓	✓	✓
S-70/MH-60/UH-60 VH-60N/SH-60	10.0t	✓	✓	✓	✓	✓	✓
AS532 (H215M)	9.0t	✓	✓	✓	✓	✓	✓
AH-1Z	8.0t	✓	✓	✓	✓	✓	✓
Mil Mi-8	7.0t	✓	✓	✓	✓	✓	✓

For all data above: 4% breakaway resistance, 1% apron slope, no engine resistance, wet concrete (friction coefficient 0.57)
We will be happy to provide exact tensile hook force calculations upon request.

CONTACT GET IN TOUCH WITH US!

GOLDHOFER AKTIENGESELLSCHAFT

Donaustrasse 95, 87700 Memmingen/Germany
Web: www.goldhofer.com, E-Mail: info@goldhofer.com

SALES

Telephone: +49 (174) 3400 210
E-Mail: sales-airporttechnology@goldhofer.com

SERVICES AND SPARE PARTS

Telephone: +49 8331 962 99 99, Fax: +49 8331 15-247
E-Mail: service-airporttechnology@goldhofer.com